RESERVE LA APPENDI

### PATENT COOPERATION TREATY

## **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 15632PCT00	FOR FURTHER AC	See Notifica Preliminary	tion of Transmittal of International Examination Report (Form PCT/IPEA/416)			
International application No. PCT/DK 03/00698	International filing date (14.10.2003	(day/month/year)	Priority date (day/month/year) 14.10.2002			
International Patent Classification (IPC A61F2/06	) or both national classification a	und IPC				
Applicant CUBE MEDICAL A/S et al.						
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>						
2. This REPORT consists of a t	This REPORT consists of a total of 6 sheets, including this cover sheet.					
been amended and are	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
	These annexes consist of a total of 4 sheets.					
This report contains indication	no relating to the following its					
. –	•	1115.				
I ⊠ Basis of the opinio	'n					
	t of opinion with regard to no	rolle inventes star				
	t of opinion with regard to now	veity, inventive step	and industrial applicability			
V 🛭 Reasoned stateme						
VI   Certain documents	s cited					
VII	the international application		•			
VIII	ns on the international applica	ation				
Date of submission of the demand		Date of completion of ti	nis report			
13.05.2004	2	27.01.2005				
Name and mailing address of the internal preliminary examining authority:	tional A	Authorized Officer	grand Process			
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5. Fax: +49 89 2399 - 4465	23656 epmu d	<sup>P</sup> ortoni, L Telephone No. +49 89 (	2399-2345			

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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l.	<b>Basis</b>	of the	report
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	escription, Pages				
	1-	10	as originally filed			
	CI	aims, Numbers				
	1-0	34	received on 11.10.2004 with letter of 11.10.2004			
	Dr	awings, Sheets				
	1/7	-7/7	as originally filed			
2.	<ol><li>With regard to the language, all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item.</li></ol>					
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:			
		the language of a to	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).			
			olication of the international application (under Rule 48.3(b)).			
		the language of a ti Rule 55.2 and/or 55	ranslation furnished for the purposes of international preliminary examination (under i.3).			
3.	Wit inte	h regard to any <b>nucl</b> rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
		contained in the inte	ernational application in written form.			
		filed together with the	ne international application in computer readable form.			
		furnished subseque	ntly to this Authority in written form.			
		furnished subseque	ntly to this Authority in computer readable form.			
		The statement that in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.			
		The statement that slisting has been furn	the information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have r	resulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

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5	5. 🗆	This report has been estable been considered to go beyon	ished a	as if (some o disclosure a	of) the amendments had not been made, since they have as filed (Rule 70.2(c)).		
		(Any replacement sheet con report.)	ntaining	g such amer	ndments must be referred to under item 1 and annexed to this		
6	S. Ad	ditional observations, if neces	sary:				
li	II. No	n-establishment of opinion	with re	egard to no	velty, inventive step and industrial applicability		
1	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
		□ the entire international application,					
	$\boxtimes$	claims Nos. 1-22					
		because:			• >-		
		the said international applicanot require an international p	ation, o orelimir	r the said cla nary examina	aims Nos. relate to the following subject matter which does ation (specify):		
	⊠	the description, claims or drawings (indicate particular elements below) or said claims Nos. 1-22 are so unclear that no meaningful opinion could be formed (specify):					
		see separate sheet					
		the claims, or said claims No could be formed.	s. are	so inadequa	tely supported by the description that no meaningful opinion		
		no international search repor	rt has b	een establis	shed for the said claims Nos.		
2.	or a	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:					
		the written form has not been	n furnis	hed or does	not comply with the Standard.		
		the computer readable form	has not	t been furnis	hed or does not comply with the Standard.		
V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Stat	ement			•		
	Nov	elty (N)	Yes: No:	Claims Claims	23-34		
	Inve	ntive step (IS)	Yes: No:	Claims Claims	23-34		
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	23-34		
2.	Citat	ions and explanations					

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see separate sheet

#### Re Item III

## Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The amendments introduced in claim 1 with letter of 11.10.2004 render the subjectmatter of said claim so unclear that it is not possible to give a reasoned opinion on the novelty, inventive step or industrial applicability of the claimed subject-matter. The reason therefore is that in amended claim 1 the applicant attempts to define the stent assembly by defining process steps of its method of manufacture rather than clearly defining the apparatus in terms of its technical features. The intended limitations are therefore not clear from this claim, contrary to the requirements of Article 6 PCT. At the moment, the only deriving technical features that the skilled person can consider to be implied by the definition in the characterising portion of amended claim 1 are that the fabric has a tubular shape with an inner diameter smaller than the outer diameter of the stent in its unexpanded condition.

The attention of the applicant is drawn to documents WO 02 24247 A (D3) and WO 02 49535 A (D1), which appears to be very relevant for the subject-matter of amended claim 1 (see in particular in D3, from line 18, page 13, to line 17, page 14; page 18, lines 12-21; page 29, lines 15-30; in D1, see in particular page 16, lines 12-23) Claims 2-22 also don't meet the requirements of Article 6 PCT, due to their dependency from claim 1.

#### Re Item V

## Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Document WO 02 24247 A (D3), representing the closest prior art, discloses a 1. method of manufacture of a stent assembly comprising the steps of manufacturing the stent and applying a cover to the stent (see from line 18, page 13, to line 17, page 14) wherein the cover is preformed into the shape of a tube before the cover is applied to the stent (see page 18, lines 12-21; page 22, lines 14-15; page 29, lines 15-19 page 51, last paragraph) the step of applying the cover to the tube comprising placing the unexpanded stent into the cover tube, the cover tube having an inner diameter which is smaller than the outer diameter of the stent when the tube is placed on the stent to achieve an inward gripping action of the cover tube on the unexpanded stent (see page 29, lines 19-30). The method of manufacture of the present international application differs from the method described in document D3 in that the cover of the stent assembly is a

#### fabric.

The use of a cover with the openness of the fabric construction provide a stent assembly which characteristics may be better varied to suit the circumstances and the special medical application (for instance vessel with side branches or not). However, the method defined in claim 23 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) because the use of a fabric cover in the manufacture of a similar stent assembly has already been disclosed in document WO 02 49535 A (D1) (see in particular page 16, lines 12-23).

Therefore, the present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 23 does not involve an inventive step in the sense of Article 33(3) PCT.

- Dependent claims 24-34 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows.
- The additional features of claims 24, and 32-34 have been disclosed in document D3 as well (see page 29, lines 15-39; page 13, lines 20-28; figures 11a-12b; page 52, lines 9-15).
- The feature of dependent claim 25 is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed.
- The features of dependent claims 26-31 are known from document D1 (see in particular page 3, lines 1-3; page 16, lines 21-23; page 25, lines 9-19; see also the examples from page 26 on).

#### Further observations

- Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 and D3 is not mentioned in the description, nor are these documents identified therein.
- Independent claims are not drafted in the two-part form in accordance with Rule 6.3(b) PCT, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(I) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).